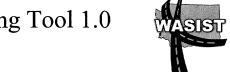
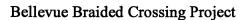
**USER COMMENTS** 



### Bellevue Braided Crossing Project

User Comme
------------

11-01-07 11:10 AM



Description:

Bel-Red Road and 116th 2014 NB

Performed by:

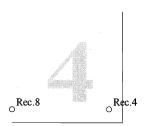
Natalie Liljenwall - CH2M HILL

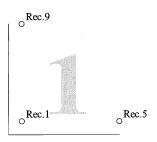
Intersection Type: Four-Way Intersection, 4 x 4 w/4 Lt Turns

Street Names:

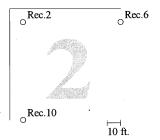
A-B: 116th C-D: Belred







Rec.7 Rec.3



#### **RESULTS:**

Receptor#	Quadrant	Distance from A-B roadway (feet)	Distance from C-D roadway (feet)	CO 1-hour avg. Conc. (ppm)	CO 8-hour avg. Conc. (ppm)	Pass/Fail*
1	<u>1</u>	<u>10</u>	<u>10</u>	8.7	7.6	Pass
2	2	10	10	8.5	7.4	Pass
3	3	10	10	8.4	7.4	Pass
4	4	10	10	8.6	7.5	Pass
5	1	82	10	8.0	7.1	Pass
6	2	-82	10	7.7	6.9	Pass
7, 4, 4	3	82	10	7.9	7.0	Pass
8	4	82	10	7.6	6.8	Pass
9	1	10	82	7.6	6.8	Pass
10	2	10	82	8.2	7.2	Pass

<sup>\*</sup>Project PASSES 1-hr and 8-hr NAAQS of 35 ppm and 9 ppm, respectively.

Largest modeled CO concentrations are at receptor 1.

- All CO concentrations include a background concentration of 5.0 ppm.
- 8-hr average CO concentrations are calculated by multiplying the 1-hr average concentrations (without background) by a persistence factor of 0.7 and then adding the background concentration.



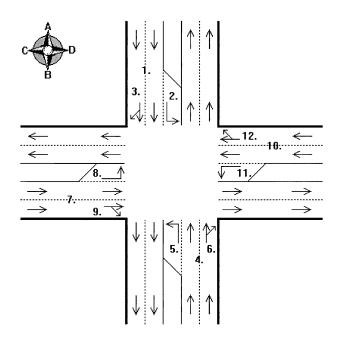


#### Bellevue Braided Crossing Project

Intersection Data:

Predominant Surroundings: Offices

Vol. Index	Movement	Volume (vph)	
1	A-B Thru	780	in the production
2	A-D Left Turn	90	
3	A-C Right Turn	240	
4	B-A Thru	640	
5	B-C Left Turn	60	
типотовки положен положения общения в положения в пол	B-D Right Turn	570	
7	C-D Thru	720	Property of the second
8	C-A Left Turn	230	
9	C-B Right Turn	50	
10	D-C Thru	1100	
11	D-B Left Turn	310	
12	D-A Right Turn	120	







#### **Bellevue Braided Crossing Project**

CO Emission Factors Based On:

Location:

Western Washington - KING County

CO Maint. Area: Puget Sound

I/M Program:

Yes

Model Year:

2014

Gasoline sulfur content of 160 ppm for 2005-2006, 60 ppm for 2007, & 30 ppm for 2008-2050.

#### MOBILE6.2 CO Emission Factors:

Idle Emission Factor (g/hr): 79.16

Approach	Speed (mph)	EF (g/mile)	
Leg A	30	13.20	
Leg B	30	13.20	
Leg C	30	13.20	
Leg D	30	13.20	

<sup>\*</sup>Note: Local roadways should be modeled using an approach speed of 15 mph or less. Highway ramps should be modeled using an approach speed of 5 mph.

#### Traffic Signal Timing:

Total Cycle Length (sec): 130

Type of Movement	Red Times (sec)
Leg A Thru & Rt	94
Leg A Left Turn	118
Leg B Thru & Rt	96
Leg B Left Turn	120
Leg C Thru & Rt	85
Leg C Left Turn	107
Leg D Thru & Rt	73
Leg D Left Turn	

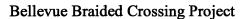




Bellevue Braided Crossing Project

T	Toor	Comments:
ι	7201	Comments.

11-02-07 10:58 AM



Description:

30: NE 8th & 116th 2014 NB

Performed by:

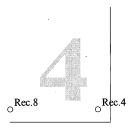
Natalie Liljenwall - CH2M HILL

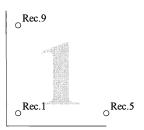
Intersection Type: Four-Way Intersection, 6 x 4 w/4 Lt Turns

Street Names:

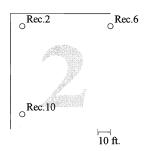
A-B: 8th C-D: 116th







Rec.7 Rec.3



#### **RESULTS:**

Receptor#	Quadrant	Distance from A-B roadway (feet)	Distance from C-D roadway (feet)	CO 1-hour avg. Conc. (ppm)	CO 8-hour avg. Conc. (ppm)	Pass/Fail*	
1	1	<u>10</u>	<u>10</u>	10.2	8.6	Pass	
2	2	10	10	9.6	8.2	Pass	
3	3	10	10	10.0	8.5	Pass	
4	4	10	10	10.0	8.5	Pass	
5	1	82	10	9.0	7.8	Pass	
6	2	82	10	8.4	7.4	Pass	
7	3	82	10	8.9	7.7	Pass	中華學科
8	4	82	10	8.5	7.4	Pass	
9	1	10	82	8.7	7.6	Pass	
10	2	10	82	9.3	8.0	Pass	

<sup>\*</sup>Project PASSES 1-hr and 8-hr NAAQS of 35 ppm and 9 ppm, respectively.

Largest modeled CO concentrations are at receptor 1.

- All CO concentrations include a background concentration of 5.0 ppm.
- 8-hr average CO concentrations are calculated by multiplying the 1-hr average concentrations (without background) by a persistence factor of 0.7 and then adding the background concentration.



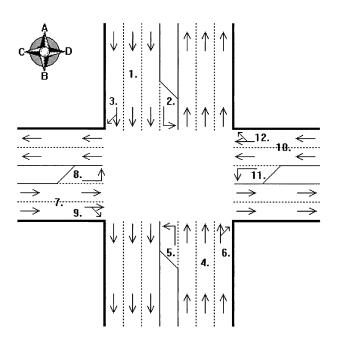


#### Bellevue Braided Crossing Project

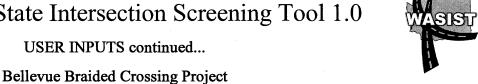
Intersection Data:

Predominant Surroundings: Offices

Vol. Index	Movement	Volume (vph)	
1	A-B Thru	1120	
2	A-D Left Turn	230	
3	A-C Right Turn	340	
4	B-A Thru	1570	
The second of th	B-C Left Turn	300	
6	B-D Right Turn	300	
7	C-D Thru	690	
8	C-A Left Turn	250	
9	C-B Right Turn	440	
10	D-C Thru	690	
	D-B Left Turn	510	
12	D-A Right Turn	790	







CO Emission Factors Based On:

Location:

Western Washington - KING County

CO Maint. Area: Puget Sound

I/M Program:

Yes

Model Year:

2014

Gasoline sulfur content of 160 ppm for 2005-2006, 60 ppm for 2007, & 30 ppm for 2008-2050.

#### MOBILE6.2 CO Emission Factors:

Idle Emission Factor (g/hr): 79.16

Approach	Speed (mph)	EF (g/mile)	
Leg A	30	13.20	
Leg B	30	13.20	
Leg C	30	13.20	Œ.
Leg D	30	13.20	

<sup>\*</sup>Note: Local roadways should be modeled using an approach speed of 15 mph or less. Highway ramps should be modeled using an approach speed of 5 mph.

#### Traffic Signal Timing:

Total Cycle Length (sec): 130

Type of Movement	Red Times (sec)	
Leg A Thru & Rt	86	
Leg A Left Turn	117	HOOK
Leg B Thru & Rt	74	
Leg B Left Turn	105	1000
Leg C Thru & Rt	96	
Leg C Left Turn	104	Marco
Leg D Thru & Rt	99	
Leg D Left Turn	107	50.23





Bellevue Braided Crossing Project

T	т	$\sim$	
ŧ	Jser	Comm	ents:

11-02-07 10:58 AM



Description:

72: NE 4th and 112th: 2014 NB

Performed by:

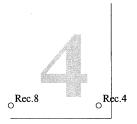
Natalie Liljenwall - CH2M HILL

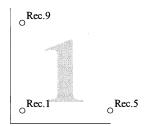
Intersection Type: Four-Way Intersection, 6 x 4 w/4 Lt Turns

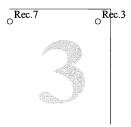
Street Names:

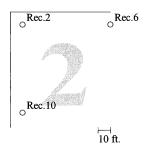
A-B: 4th C-D: 112th











#### **RESULTS:**

Receptor#	Quadrant	Distance from A-B roadway (feet)	Distance from C-D roadway (feet)	CO 1-hour avg. Conc. (ppm)	CO 8-hour avg. Conc. (ppm)	Pass/Fail*	
1	1	10	10	8.2	7.2	Pass	
2	2	10	10	8.1	7.2	Pass	
<u>3</u>	<u>3</u>	<u>10</u>	<u>10</u>	8.4	<u>7.4</u>	Pass	
4	4	10	10	8.2	7.2	Pass	
5	1	82	10	7.8	7.0	Pass	
6	2	82	10	7.2	6.5	Pass	
7	3	82	10	7.8	7.0	Pass	
8	4	82	10	7.2	6.5	Pass	
9	1	10	82	7.0	6.4	Pass	
10	2	10	82	8.0	7.1	Pass	Common Approversive Transvers, 49

<sup>\*</sup>Project PASSES 1-hr and 8-hr NAAQS of 35 ppm and 9 ppm, respectively.

Largest modeled CO concentrations are at receptor 3.

- All CO concentrations include a background concentration of 5.0 ppm.
- 8-hr average CO concentrations are calculated by multiplying the 1-hr average concentrations (without background) by a persistence factor of 0.7 and then adding the background concentration.



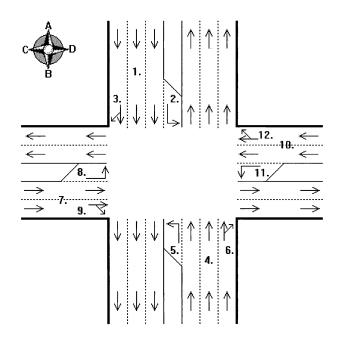


#### Bellevue Braided Crossing Project

Intersection Data:

Predominant Surroundings: Offices

Vol. Index	Movement	Volume (vph)	
1	A-B Thru	1350	1250
2	A-D Left Turn	40	
3	A-C Right Turn	160	terbre in
4	B-A Thru	750	
5	B-C Left Turn	2	
6	B-D Right Turn	160	ACCOUNTS AND ACCOU
7	C-D Thru	580	
8	C-A Left Turn	120	
9	C-B Right Turn	330	
10	D-C Thru	730	
11	D-B Left Turn	340	<b>整个人</b>
12	D-A Right Turn	80	









CO Emission Factors Based On:

Location:

Western Washington - KING County

CO Maint. Area: Puget Sound

I/M Program:

Yes

Model Year:

2014

Gasoline sulfur content of 160 ppm for 2005-2006, 60 ppm for 2007, & 30 ppm for 2008-2050.

MOBILE6.2 CO Emission Factors:

Idle Emission Factor (g/hr): 79.16

Approach	Speed (mph)	EF (g/mile)	
Leg A	30	13.20	145 H S 1437
Leg B	30	13.20	
Leg C	30	13.20	
Leg D	30	13.20	

<sup>\*</sup>Note: Local roadways should be modeled using an approach speed of 15 mph or less. Highway ramps should be modeled using an approach speed of 5 mph.

#### Traffic Signal Timing:

Total Cycle Length (sec): 130

Type of Movement	Red Times (sec)
Leg A Thru & Rt	72
Leg A Left Turn	119
Leg B Thru & Rt	84
Leg B Left Turn	84
Leg C Thru & Rt	85
Leg C Left Turn	111
Leg D Thru & Rt	80
Leg D Left Turn	106

# Washington State Intersection Screening Tool 1.0 USER COMMENTS



### Bellevue Braided Crossing Project

User Comments:			

11-02-07 10:59 AM



Description:

Main St. and 112th NB

Performed by:

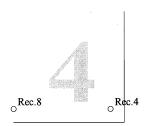
Natalie Liljenwall - CH2M HILL

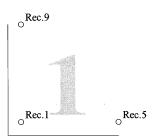
Intersection Type: Four-Way Intersection, 4 x 4 w/4 Lt Turns

Street Names:

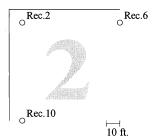
A-B: 112th C-D: Main







Rec.3 Rec.7



#### **RESULTS:**

Receptor#	Quadrant	Distance from A-B roadway (feet)	Distance from C-D roadway (feet)	CO 1-hour avg. Conc. (ppm)	CO 8-hour avg. Conc. (ppm)	Pass/Fail*
1 1 2	1	10	10	8.2	7.2	Pass
<u> </u>	2	10	10	8.5	<u>7.4</u>	<u>Pass</u>
3	3	10	10	8.4	7.4	Pass
4	4	10	10	8.1	7.2	Pass
5	1	82	10	7.8	7.0	Pass
6	2	82	10	7.3	6.6	Pass
7	3	82	10	7.8	7.0	Pass
8	4	82	10	7.2	6.5	Pass
9	1	10	82	7.3	6.6	Pass
10	2	10	82	8.0	7.1	Pass

<sup>\*</sup>Project PASSES 1-hr and 8-hr NAAQS of 35 ppm and 9 ppm, respectively.

Largest modeled CO concentrations are at receptor 2.

- All CO concentrations include a background concentration of 5.0 ppm.
- 8-hr average CO concentrations are calculated by multiplying the 1-hr average concentrations (without background) by a persistence factor of 0.7 and then adding the background concentration.



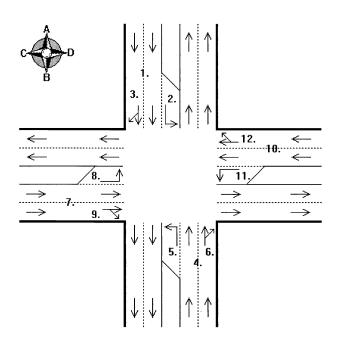


#### Bellevue Braided Crossing Project

Intersection Data:

Predominant Surroundings: Offices

Vol. Index	Movement	Volume (vph)	
1	A-B Thru	830	
2	A-D Left Turn	170	
3	A-C Right Turn	100	中国学基础
4	B-A Thru	500	300000000000000000000000000000000000000
5	B-C Left Turn	260	
6	B-D Right Turn	140	
7	C-D Thru	790	
8	C-A Left Turn	130	
9	C-B Right Turn	360	
10	D-C Thru	570	
11	D-B Left Turn	240	
12	D-A Right Turn	60	







#### **Bellevue Braided Crossing Project**

CO Emission Factors Based On:

Location:

Western Washington - KING County

CO Maint. Area: Puget Sound

I/M Program:

Yes

Model Year:

2014

Gasoline sulfur content of 160 ppm for 2005-2006, 60 ppm for 2007, & 30 ppm for 2008-2050.

MOBILE6.2 CO Emission Factors:

Idle Emission Factor (g/hr): 79.16

Approach	Speed (mph)	EF (g/mile)	
Leg A	30	13.20	1007
Leg B	30	13.20	
Leg C	30	13.20	
Leg D	30	13.20	

<sup>\*</sup>Note: Local roadways should be modeled using an approach speed of 15 mph or less. Highway ramps should be modeled using an approach speed of 5 mph.

#### Traffic Signal Timing:

Total Cycle Length (sec): 130

Type of Movement	Red Times (sec)
Leg A Thru & Rt	90
Leg A Left Turn	111
Leg B Thru & Rt	88
Leg B Left Turn	109
Leg C Thru & Rt	- 18 To 18 T
Leg C Left Turn	111
Leg D Thru & Rt	84
Leg D Left Turn	110

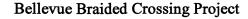


#### **USER COMMENTS**

Bellevue Braided Crossing Project

T	т		
ı	ICer	Comments	٠.
•		Communication	٠.

11-01-07 10:04 AM



Description:

NE 12th & 112th 2014 B

Performed by:

Natalie Liljenwall - CH2M HILL

Intersection Type: Four-Way Intersection, 4 x 4 w/4 Lt Turns

Street Names:

A-B: 112th C-D: 12th









#### **RESULTS:**

Receptor#	Quadrant	Distance from A-B roadway (feet)	Distance from C-D roadway (feet)	CO 1-hour avg. Conc. (ppm)	CO 8-hour avg. Conc. (ppm)	Pass/Fail*
1	1	10	10	8.3	7.3	Pass
2	2	10	10	8.3	7.3	Pass
3	3	10	10	8.3	7.3	Pass
4	<u>4</u>	10	10	<u>8.5</u>	<u>7.4</u>	Pass

<sup>\*</sup>Project PASSES 1-hr and 8-hr NAAQS of 35 ppm and 9 ppm, respectively.

Largest modeled CO concentrations are at receptor 4.

- All CO concentrations include a background concentration of 5.0 ppm.
- 8-hr average CO concentrations are calculated by multiplying the 1-hr average concentrations (without background) by a persistence factor of 0.7 and then adding the background concentration.



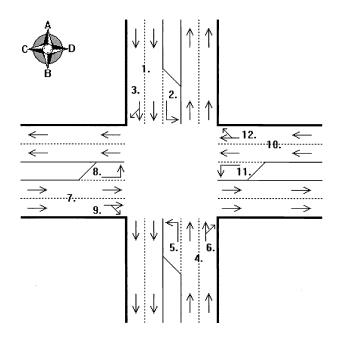


#### Bellevue Braided Crossing Project

Intersection Data:

Predominant Surroundings: Offices

Vol. Index	Movement	Volume (vph)	
100000000000000000000000000000000000000	A-B Thru	680	\$1.635
2	A-D Left Turn	100	
3	A-C Right Turn	230	
4	B-A Thru	540	
5	B-C Left Turn	160	
6	B-D Right Turn	200	
7	C-D Thru	690	
8	C-A Left Turn	270	
9	C-B Right Turn	180	() 秦秦等
10	D-C Thru	1020	
11	D-B Left Turn	170	
12	D-A Right Turn	180	







#### **Bellevue Braided Crossing Project**

CO Emission Factors Based On:

Location:

Western Washington - KING County

CO Maint. Area: Puget Sound

I/M Program:

Yes

Model Year:

2014

Gasoline sulfur content of 160 ppm for 2005-2006, 60 ppm for 2007, & 30 ppm for 2008-2050.

#### MOBILE6.2 CO Emission Factors:

Idle Emission Factor (g/hr): 79.16

Approach	Speed (mph)	EF (g/mile)
Leg A	30	13.20
Leg B	30	13.20
Leg C	30	13.20
Leg D	30	13.20

<sup>\*</sup>Note: Local roadways should be modeled using an approach speed of 15 mph or less. Highway ramps should be modeled using an approach speed of 5 mph.

#### Traffic Signal Timing:

Total Cycle Length (sec): 130

Type of Movement	Red Times (sec)	
Leg A Thru & Rt	93	Carried Street
Leg A Left Turn	117	
Leg B Thru & Rt	90	and the second
Leg B Left Turn	114	
Leg C Thru & Rt	77	
Leg C Left Turn	107	
Leg D Thru & Rt	80	2000
Leg D Left Turn	110	40.

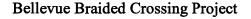


### USER COMMENTS

Bel1	levne	Braid	ed C	rossing	Project
	io i uo	Diana	ou c	TOBBILLE	110,000

User Comn	nents:
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11-02-07 11:32 AM



Description:

26: NE 8th and 405 off B 2014

Performed by:

Natalie Liljenwall - CH2M HILL

Intersection Type

Intersection Type: Four-Way Intersection, 4 x 4 w/4 Lt Turns

Street Names:

A-B: 405 Off C-D: 8th







Rec. 3

Rec.2

#### **RESULTS:**

Receptor#	Quadrant	Distance from A-B roadway (feet)	Distance from C-D roadway (feet)	CO 1-hour avg. Conc. (ppm)	CO 8-hour avg. Conc. (ppm)	Pass/Fail*
1	1	10	10	9.0	7.8	Pass
2	2	10	10	9.1	7.9	Pass
3	3	10	10	9.3	8.0	Pass
4	4	<u>10</u>	<u>10</u>	<u>9.6</u>	8.2	Pass

<sup>\*</sup>Project PASSES 1-hr and 8-hr NAAQS of 35 ppm and 9 ppm, respectively.

Largest modeled CO concentrations are at receptor 4.

- All CO concentrations include a background concentration of 5.0 ppm.
- 8-hr average CO concentrations are calculated by multiplying the 1-hr average concentrations (without background) by a persistence factor of 0.7 and then adding the background concentration.



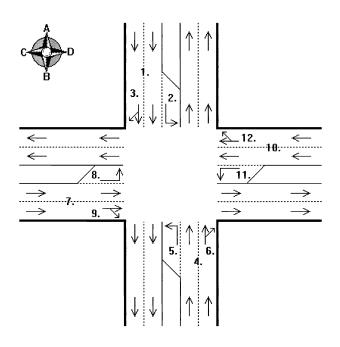


#### Bellevue Braided Crossing Project

Intersection Data:

Predominant Surroundings: Offices

Vol. Index	Movement	Volume (vph)	
1	A-B Thru	720	
2	A-D Left Turn	420	
3	A-C Right Turn	100	12.9
4	B-A Thru	470	
5	B-C Left Turn	140	
6	B-D Right Turn	270	***************************************
7	C-D Thru	1190	11.7
8	C-A Left Turn	2	***************************************
9	C-B Right Turn	480	
10	D-C Thru	1790	Personal
11	D-B Left Turn	200	945 6452
12	D-A Right Turn	250	







#### **Bellevue Braided Crossing Project**

CO Emission Factors Based On:

Location:

Western Washington - KING County

CO Maint. Area: Puget Sound

I/M Program:

Yes

Model Year:

2014

Gasoline sulfur content of 160 ppm for 2005-2006, 60 ppm for 2007, & 30 ppm for 2008-2050.

#### MOBILE6.2 CO Emission Factors:

Idle Emission Factor (g/hr): 79.16

Approach	Speed (mph)	EF (g/mile)
Leg A	30	13.20
Leg B	30	13.20
Leg C	30	13.20
Leg D	30	13.20

<sup>\*</sup>Note: Local roadways should be modeled using an approach speed of 15 mph or less. Highway ramps should be modeled using an approach speed of 5 mph.

#### Traffic Signal Timing:

Total Cycle Length (sec): 130

Type of Movement	Red Times (sec)	
Leg A Thru & Rt	89	
Leg A Left Turn	105	
Leg B Thru & Rt	96	
Leg B Left Turn	112	
Leg C Thru & Rt	83	
Leg C Left Turn	83	
Leg D Thru & Rt	94	
Leg D Left Turn	110	ACTANON-REE



### **USER COMMENTS**

User Commo	ents:
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11-02-07 11:33 AM



Description:

Bel-Red Road and 116th 2014 B

Performed by:

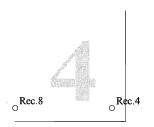
Natalie Liljenwall - CH2M HILL

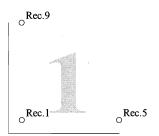
Intersection Type: Four-Way Intersection, 4 x 4 w/4 Lt Turns

Street Names:

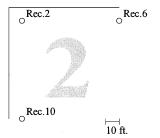
A-B: 116th C-D: Belred







Rec.3 Rec.7



#### **RESULTS:**

Receptor#	Quadrant	Distance from A-B roadway (feet)	Distance from C-D roadway (feet)	CO 1-hour avg. Conc. (ppm)	CO 8-hour avg. Conc. (ppm)	Pass/Fail*	
<u>1</u>	1	<u>10</u>	<u>10</u>	<u>8.7</u>	<u>7.6</u>	Pass	
2	2	10	10	8.5	7.4	Pass	ection and the second desired and the second desired on the contrast and t
3	3	10	10	8.4	7.4	Pass	
4	4	10	10	8.6	7.5	Pass	
5.	1	82	10	8.0	7.1	Pass	
6	2	82	10	7.7	6.9	Pass	
7	3	82	10	7.9	7.0	Pass	
8	4	82	10	7.6	6.8	Pass	
9	1	10	82	7.6	6.8	Pass	
10	2	10	82	8.2	7.2	Pass	OCCUPANT AND AND ADDRESS OF THE PROPERTY OF TH

<sup>\*</sup>Project PASSES 1-hr and 8-hr NAAQS of 35 ppm and 9 ppm, respectively.

Largest modeled CO concentrations are at receptor 1.

- All CO concentrations include a background concentration of 5.0 ppm.
- 8-hr average CO concentrations are calculated by multiplying the 1-hr average concentrations (without background) by a persistence factor of 0.7 and then adding the background concentration.



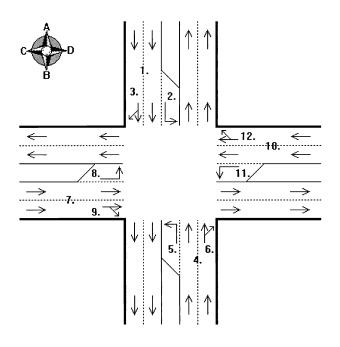


#### Bellevue Braided Crossing Project

Intersection Data:

Predominant Surroundings: Offices

Vol. Index	Movement	Volume (vph)	
1 1 1	A-B Thru	780	A ALEXANDER
2	A-D Left Turn	90	
3	A-C Right Turn	240	
4	B-A Thru	640	Successing and a second a second and a second a second and a second a
5	B-C Left Turn	60	
6	B-D Right Turn	570	
7 Commence Table 12	C-D Thru	720	
8	C-A Left Turn	230	186 customiscoulog designation policies con contrar and
9	C-B Right Turn	50	
10	D-C Thru	1100	
11	D-B Left Turn	310	
12	D-A Right Turn	120	







#### Bellevue Braided Crossing Project

CO Emission Factors Based On:

Location:

Western Washington - KING County

CO Maint. Area: Puget Sound

I/M Program:

Yes

Model Year:

2014

Gasoline sulfur content of 160 ppm for 2005-2006, 60 ppm for 2007, & 30 ppm for 2008-2050.

#### MOBILE6.2 CO Emission Factors:

Idle Emission Factor (g/hr): 79.16

Approach	Speed (mph)	EF (g/mile)	
Leg A	30	13.20	
Leg B	30	13.20	
Leg C	30	13.20	20
Leg D	30	13.20	

<sup>\*</sup>Note: Local roadways should be modeled using an approach speed of 15 mph or less. Highway ramps should be modeled using an approach speed of 5 mph.

#### Traffic Signal Timing:

Total Cycle Length (sec): 130

Type of Movement	Red Times (sec)	
Leg A Thru & Rt	94	200
Leg A Left Turn	118	
Leg B Thru & Rt	96	
Leg B Left Turn	120	
Leg C Thru & Rt	85	
Leg C Left Turn	107	ane
Leg D Thru & Rt	73	
Leg D Left Turn	95	1000

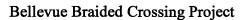


#### **USER COMMENTS**

Bellevue Braided Crossing Project

T	T	C t
ŧ	Jser	Comments:

11-01-07 11:15 AM



Description:

30: NE 8th & 116th 2014 B

Performed by:

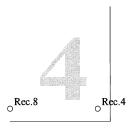
Natalie Liljenwall - CH2M HILL

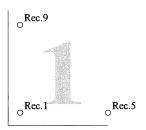
Intersection Type: Four-Way Intersection, 6 x 4 w/4 Lt Turns

Street Names:

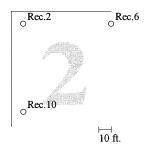
A-B: 8th C-D: 116th







Rec.3 Rec.7



#### **RESULTS:**

Receptor#	Quadrant	Distance from A-B roadway (feet)	Distance from C-D roadway (feet)	CO 1-hour avg. Conc. (ppm)	CO 8-hour avg. Conc. (ppm)	Pass/Fail*	
<u>1</u>	1	<u>10</u>	<u>10</u>	10.2	8.6	<u>Pass</u>	
2	2	10	10	9.6	8.2	Pass	TOTAL OF THE PROPERTY OF THE P
3	3	10	10	10.0	8.5	Pass	
4	4	10	10	10.0	8.5	Pass	
5	1	82	10	9.0	7.8	Pass	
6	2	82	10	8.4	7.4	Pass	
7	3	82	10	8.9	7.7	Pass	
8	4	82	10	8.5	7.4	Pass	224-00-00-00-00-00-00-00-00-00-00-00-00-00
9	1	10	82	8.7	7.6	Pass	
10	2	10	82	9.3	8.0	Pass	MANUAL TO CHARLES AND THE PROPERTY OF THE PROP

<sup>\*</sup>Project PASSES 1-hr and 8-hr NAAQS of 35 ppm and 9 ppm, respectively.

Largest modeled CO concentrations are at receptor 1.

- All CO concentrations include a background concentration of 5.0 ppm.
- 8-hr average CO concentrations are calculated by multiplying the 1-hr average concentrations (without background) by a persistence factor of 0.7 and then adding the background concentration.



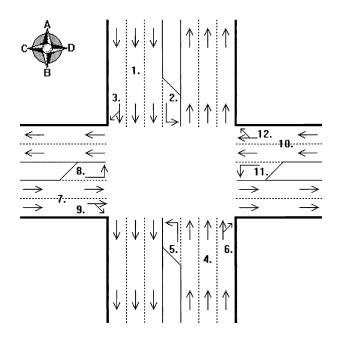


#### Bellevue Braided Crossing Project

Intersection Data:

Predominant Surroundings: Offices

Vol. Index	Movement	Volume (vph)	
1	A-B Thru	1120	
2	A-D Left Turn	230	
3	A-C Right Turn	340	
4	B-A Thru	1570	HOSPIGEOS.
5	B-C Left Turn	300	
6	B-D Right Turn	300	
7	C-D Thru	690	
в на при	C-A Left Turn	250	500000000
9	C-B Right Turn	440	
10	D-C Thru	690	E-900000000X
11	D-B Left Turn	510	
12	D-A Right Turn	790	







#### Bellevue Braided Crossing Project

CO Emission Factors Based On:

Location:

Western Washington - KING County

CO Maint. Area: Puget Sound

I/M Program:

Yes

2014

Model Year:

Gasoline sulfur content of 160 ppm for 2005-2006, 60 ppm for 2007, & 30 ppm for 2008-2050.

#### MOBILE6.2 CO Emission Factors:

Idle Emission Factor (g/hr): 79.16

Approach	Speed (mph)	EF (g/mile)
Leg A	30	13.20
Leg B	30	13.20
Leg C	30	13.20
Leg D	30	13.20

<sup>\*</sup>Note: Local roadways should be modeled using an approach speed of 15 mph or less. Highway ramps should be modeled using an approach speed of 5 mph.

#### Traffic Signal Timing:

Total Cycle Length (sec): 130

Type of Movement	Red Times (sec)	
Leg A Thru & Rt	86	
Leg A Left Turn	117	
Leg B Thru & Rt	74	
Leg B Left Turn	105	THE STATE OF THE S
Leg C Thru & Rt	96	
Leg C Left Turn	104	
Leg D Thru & Rt	99	
Leg D Left Turn	107	enough



# USER COMMENTS Bellevue Braided Crossing Project

User Comments:		

11-01-07 11:22 AM



Description:

72: NE 4th and 112th: 2014 B

Performed by:

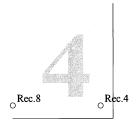
Natalie Liljenwall - CH2M HILL

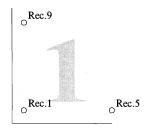
Intersection Type: Four-Way Intersection, 6 x 4 w/4 Lt Turns

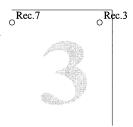
Street Names:

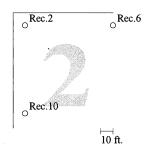
A-B: 4th C-D: 112th











#### **RESULTS:**

Receptor#	Quadrant	Distance from A-B roadway (feet)	Distance from C-D roadway (feet)	CO 1-hour avg. Conc. (ppm)	CO 8-hour avg. Conc. (ppm)	Pass/Fail*	
1	1	10	10	8.2	7.2	Pass	ANGELIA (GRANA) GRANA
2	2	10	10	8.1	7.2	Pass	
4 <u>5. 14. <b>3</b></u> 1. 116. 16. 14.	3	<u>10</u>	<u>10</u>	8.4	<u>7.4</u>	Pass	
4	4	10	10	8.2	7.2	Pass	
5	1	82	10	7.8	7.0	Pass	
6	2	82	10	7.2	6.5	Pass	
7	3	82	10	7.8	7.0	Pass	
8	4	82	10	7.2	6.5	Pass	
9	1 1	10	82	7.0	6.4	Pass	e Distriction and
10	2	10	82	8.0	7.1	Pass	

<sup>\*</sup>Project PASSES 1-hr and 8-hr NAAQS of 35 ppm and 9 ppm, respectively.

Largest modeled CO concentrations are at receptor 3.

- All CO concentrations include a background concentration of 5.0 ppm.
- 8-hr average CO concentrations are calculated by multiplying the 1-hr average concentrations (without background) by a persistence factor of 0.7 and then adding the background concentration.



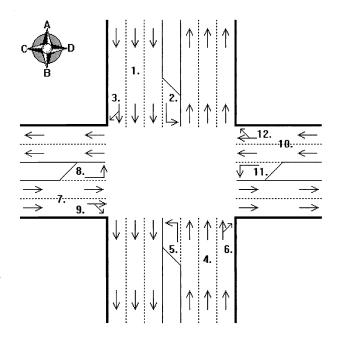


#### Bellevue Braided Crossing Project

Intersection Data:

Predominant Surroundings: Offices

Vol. Index	Movement	Volume (vph)	
1	A-B Thru	1350	11-2
2	A-D Left Turn	40	
3	A-C Right Turn	160	
4	B-A Thru	750	
5 1000 1000 1000	B-C Left Turn	2	
6	B-D Right Turn	160	
7	C-D Thru	580	
8	C-A Left Turn	120	
9	C-B Right Turn	330	
10	D-C Thru	730	
	D-B Left Turn	340	
12	D-A Right Turn	80	









#### CO Emission Factors Based On:

Location:

Western Washington - KING County

CO Maint. Area: Puget Sound

I/M Program:

Yes

Model Year:

2014

Gasoline sulfur content of 160 ppm for 2005-2006, 60 ppm for 2007, & 30 ppm for 2008-2050.

#### MOBILE6.2 CO Emission Factors:

Idle Emission Factor (g/hr): 79.16

Approach	Speed (mph)	EF (g/mile)	
Leg A	30	13.20	September 1
Leg B	30	13.20	
Leg C	30	13.20	
Leg D	30	13.20	

<sup>\*</sup>Note: Local roadways should be modeled using an approach speed of 15 mph or less. Highway ramps should be modeled using an approach speed of 5 mph.

#### Traffic Signal Timing:

Total Cycle Length (sec): 130

Type of Movement	Red Times (sec)
Leg A Thru & Rt	72
Leg A Left Turn	119
Leg B Thru & Rt	84
Leg B Left Turn	84
Leg C Thru & Rt	85
Leg C Left Turn	111
Leg D Thru & Rt	80
Leg D Left Turn	106



#### **USER COMMENTS**

Bellevue Braided Crossing Project

User Comments:		

04-04-07 03:10 PM





Main St. and 112th Build

Performed by:

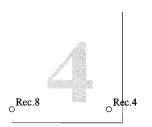
Natalie Liljenwall - CH2M HILL

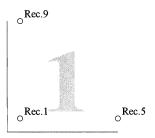
Intersection Type: Four-Way Intersection, 4 x 4 w/4 Lt Turns

Street Names:

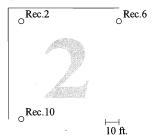
A-B: 112th C-D: Main







Rec.7 Rec.3



#### **RESULTS:**

Receptor#	Quadrant	Distance from A-B roadway (feet)	Distance from C-D roadway (feet)	CO 1-hour avg. Conc. (ppm)	CO 8-hour avg. Conc. (ppm)	Pass/Fail*	
1	1	10	10	8.2	7.2	Pass	
2	2	10	10	<u>8.5</u>	<u>7.4</u>	<u>Pass</u>	
3	3	10	10	8.4	7.4	Pass	
4	4	10	10	8.1	7.2	Pass	
5	1	82	10	7.8	7.0	Pass	Superior of the superior
6	2	82	10	7.3	6.6	Pass	
7	3	82	10	7.8	7.0	Pass	
8	4	82	10	7.2	6.5	Pass	100 to
9	1	10	82	7.3	6.6	Pass	
10	2	10	82	8.0	7.1	Pass	

<sup>\*</sup>Project PASSES 1-hr and 8-hr NAAQS of 35 ppm and 9 ppm, respectively.

Largest modeled CO concentrations are at receptor 2.

- All CO concentrations include a background concentration of 5.0 ppm.
- 8-hr average CO concentrations are calculated by multiplying the 1-hr average concentrations (without background) by a persistence factor of 0.7 and then adding the background concentration.



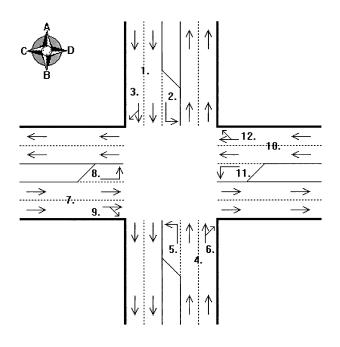


#### Bellevue Braided Crossing Project

Intersection Data:

Predominant Surroundings: Offices

Vol. Index	Movement	Volume (vph)	
1	A-B Thru	830	
2	A-D Left Turn	170	
3	A-C Right Turn	100	and the
4	B-A Thru	500	
5	B-C Left Turn	260	turning and the second
6	B-D Right Turn	140	and the state of t
7	C-D Thru	790	
8	C-A Left Turn	130	
9	C-B Right Turn	360	
10	D-C Thru	570	
11	D-B Left Turn	240	
12	D-A Right Turn	60	The second secon







#### Bellevue Braided Crossing Project

CO Emission Factors Based On:

Location:

Western Washington - KING County

CO Maint. Area: Puget Sound

I/M Program:

Yes

Model Year:

2014

Gasoline sulfur content of 160 ppm for 2005-2006, 60 ppm for 2007, & 30 ppm for 2008-2050.

#### MOBILE6.2 CO Emission Factors:

Idle Emission Factor (g/hr): 79.16

Approach	Speed (mph)	EF (g/mile)	
Leg A	30	13.20	
Leg B	30	13.20	
Leg C	30	13.20	
Leg D	30	13.20	

<sup>\*</sup>Note: Local roadways should be modeled using an approach speed of 15 mph or less. Highway ramps should be modeled using an approach speed of 5 mph.

#### Traffic Signal Timing:

Total Cycle Length (sec): 130

Type of Movement	Red Times (sec)	
Leg A Thru & Rt	90	
Leg A Left Turn	111	SCHOOL STATE
Leg B Thru & Rt	88	
Leg B Left Turn	109	
Leg C Thru & Rt	85	
Leg C Left Turn	111	00000
Leg D Thru & Rt	84	
Leg D Left Turn	110	0.000.00





Bellevue Braided Crossing Project

T	Taor	Comments:	
ι	Jser	Comments:	

11-01-07 01:32 PM



Description:

NE 12th & 112th 2030 NB

Performed by:

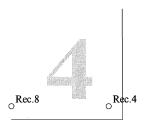
Natalie Liljenwall - CH2M HILL

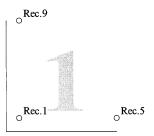
Intersection Type: Four-Way Intersection, 4 x 4 w/4 Lt Turns

Street Names:

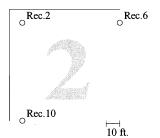
A-B: 112th C-D: 12th







Rec.7 Rec.3



#### **RESULTS:**

Receptor#	Quadrant	Distance from A-B roadway (feet)	Distance from C-D roadway (feet)	CO 1-hour avg. Conc. (ppm)	CO 8-hour avg. Conc. (ppm)	Pass/Fail*	
1	1	10	10	7.5	6.8	Pass	
2	2	10	10	7.7	6.9	Pass	
3	3	10	10	7.8	7.0	Pass	grenom de de la como d
4	4	10	10	<u>8.0</u>	<u>7.1</u>	<u>Pass</u>	
5	1	82	10	7.3	6.6	Pass	
6	2	82	10	7.0	6.4	Pass	
7	3	82	10	7.4	6.7	Pass	A Company
8	4	82	10	7.2	6.5	Pass	
9.	1	10	82	6.9	6.3	Pass	
10	2	10	82	7.2	6.5	Pass	

<sup>\*</sup>Project PASSES 1-hr and 8-hr NAAQS of 35 ppm and 9 ppm, respectively.

Largest modeled CO concentrations are at receptor 4.

- All CO concentrations include a background concentration of 5.0 ppm.
- 8-hr average CO concentrations are calculated by multiplying the 1-hr average concentrations (without background) by a persistence factor of 0.7 and then adding the background concentration.



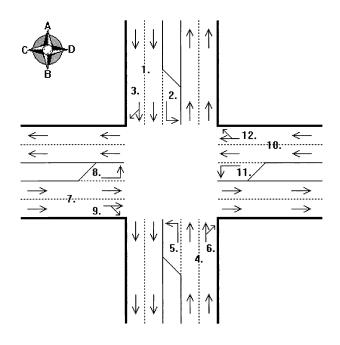


#### Bellevue Braided Crossing Project

Intersection Data:

Predominant Surroundings: Offices

Vol. Index	Movement	Volume (vph)	
1	A-B Thru	730	
2	A-D Left Turn	120	
3	A-C Right Turn	250	
4	B-A Thru	610	
5	B-C Left Turn	190	
6	B-D Right Turn	240	
7	C-D Thru	950	96 98 50
8	C-A Left Turn	310	
9	C-B Right Turn	200	
10	D-C Thru	1270	
11	D-B Left Turn	190	
12	D-A Right Turn	210	







#### Bellevue Braided Crossing Project

CO Emission Factors Based On:

Location:

Western Washington - KING County

CO Maint. Area: Puget Sound

I/M Program:

Yes

2030

Model Year:

Gasoline sulfur content of 160 ppm for 2005-2006, 60 ppm for 2007, & 30 ppm for 2008-2050.

#### MOBILE6.2 CO Emission Factors:

Idle Emission Factor (g/hr): 57.24

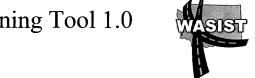
Approach	Speed (mph)	EF (g/mile)	,
Leg A	30	9.55	
Leg B	30	9.55	
Leg C	30	9.55	On Bridge
Leg D	30	9.55	

<sup>\*</sup>Note: Local roadways should be modeled using an approach speed of 15 mph or less. Highway ramps should be modeled using an approach speed of 5 mph.

#### **Traffic Signal Timing:**

Total Cycle Length (sec): 130

Type of Movement	Red Times (sec)
Leg A Thru & Rt	94
Leg A Left Turn	117
Leg B Thru & Rt	90
Leg B Left Turn	113
Leg C Thru & Rt	74
Leg C Left Turn	107
Leg D Thru & Rt	80
Leg D Left Turn	113



### Bellevue Braided Crossing Project

**USER COMMENTS** 

User Comments:			